



DX8UP-512MBRAM

Installation Manual

DX8000 Digital Video Recorder

C2612M-A (6/06)

Introduction

The following instructions serve as a guide for the installation of the DX8UP-512MBRAM memory expansion module.

PARTS LIST

Qty	Description
1	512 MB double data rate (DDR) dual in-line memory module (DIMM)
1	Adhesive-backed upgrade part label

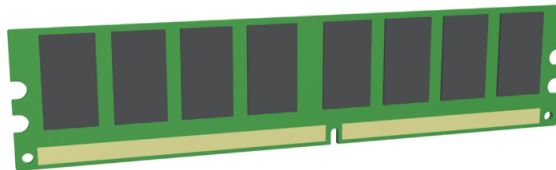



Figure 1. 512 MB DIMM Module

TOOLS NEEDED

- 1 Phillips-head screwdriver #1 (nonmagnetic)
- 1 Properly grounded ESD wrist strap and mat
- 4 Small containers for storing screws (optional)

Getting Ready

1. Familiarize yourself with the instructions throughout this manual.
2. Check that you have all the necessary parts and tools. Refer to the Parts List and Tools Needed sections.
3. Shut down the DX8000 Series DVR unit. Refer to DX8000 Installation Manual or Operations and Programming Manual for instructions on shutting down your unit.
4. Unplug the power cord from the wall socket and then from the rear of the DVR.

 **WARNING:** For safety reasons, you must remove the power cord because current continues to flow through the DX8000 even when the unit is off. Remove the power cord from the wall socket first and then from the rear of the DVR. It is critical that the unit be unplugged for your safety.

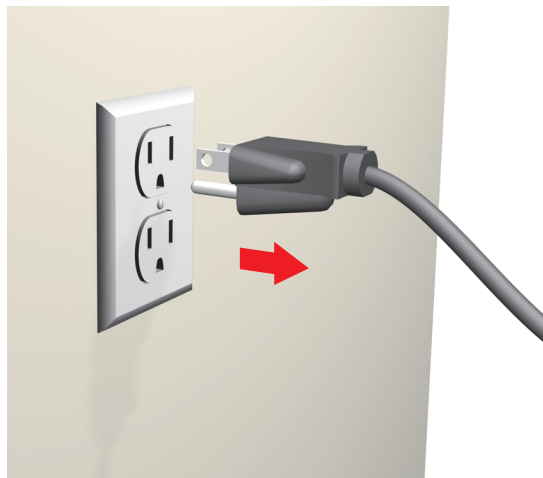


Figure 2. Removing Power Cord from Wall

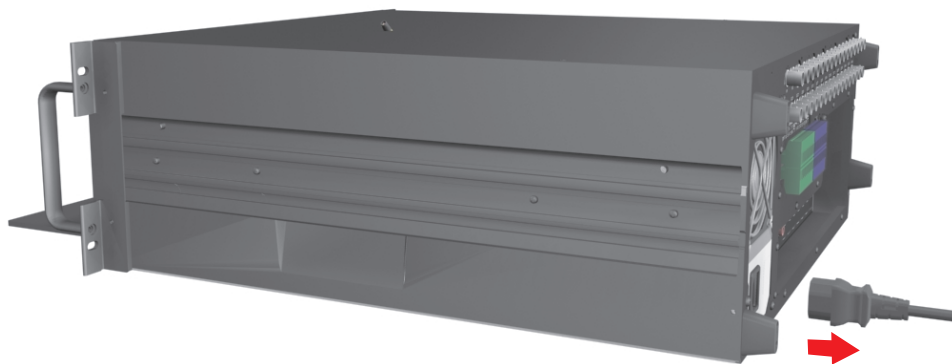


Figure 3. Removing Power Cord from Unit

5. Ensure that the DX8000 Series DVR and all of its components are protected against electrostatic discharge (ESD). Before handling any electronic components, you should take steps to ground yourself properly so that any built-up static electric charges are dissipated away from the unit. The most effective method for combating ESD is to use a properly grounded wrist strap.

NOTE: If you do not have access to a grounded wrist strap, you can discharge any built-up static by periodically touching an unpainted section of the chassis.

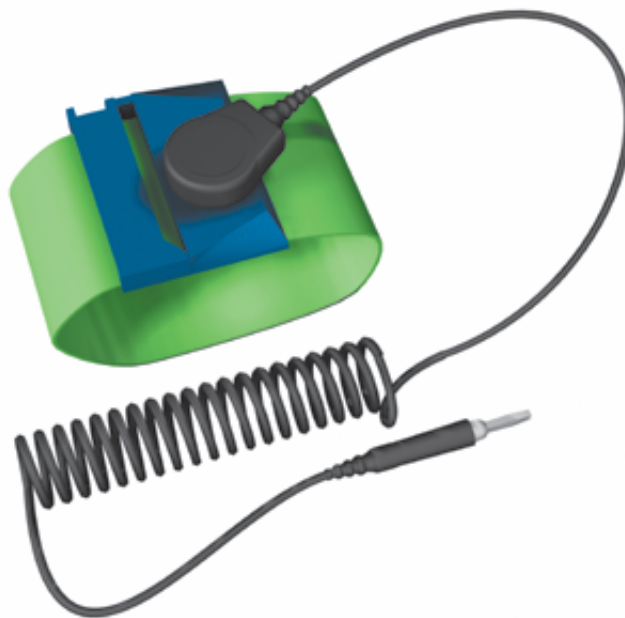


Figure 4. ESD Protection

Prepare Unit for RAM Installation

OPEN THE UNIT CHASSIS

⚠ WARNING: The chassis assembly includes parts with sharp edges. To avoid injury, use caution when working in and around the DX8000's chassis and components.

1. If the DX8000 is mounted in a rack, remove it and transport it to an area that will provide full access to the unit chassis:
 - a. Disconnect any cables or connections that might restrict access to or the removal of the unit.
 - b. Unscrew the fasteners that are securing the unit in the rack.
 - c. Carefully lift the unit out of the rack.

NOTE: Removing the DX8000 from a rack may require more than one person. Refer to the DX8000 Installation Manual for rack mounting information.

2. Place the DX8000 on a flat surface with ample workspace.
3. Using a Phillips-head screwdriver, remove the chassis cover:

⚠ WARNING: Make sure unit is turned off and you are wearing a properly grounded ESD wrist strap before attempting to open the DX8000 chassis cover. Refer to the Getting Ready section.

- a. Remove the two top-most screws on the left and right side panels of the DX8000. Refer to Figure 5.
- b. Remove the four silver screws fastening the cover to the rear of the unit. These screws are the ones closest to the top of the unit. Refer to Figure 5.
- c. Carefully remove the chassis cover by sliding it back and up. Set aside the cover. Figure 6 illustrates the interior of the DX8000.

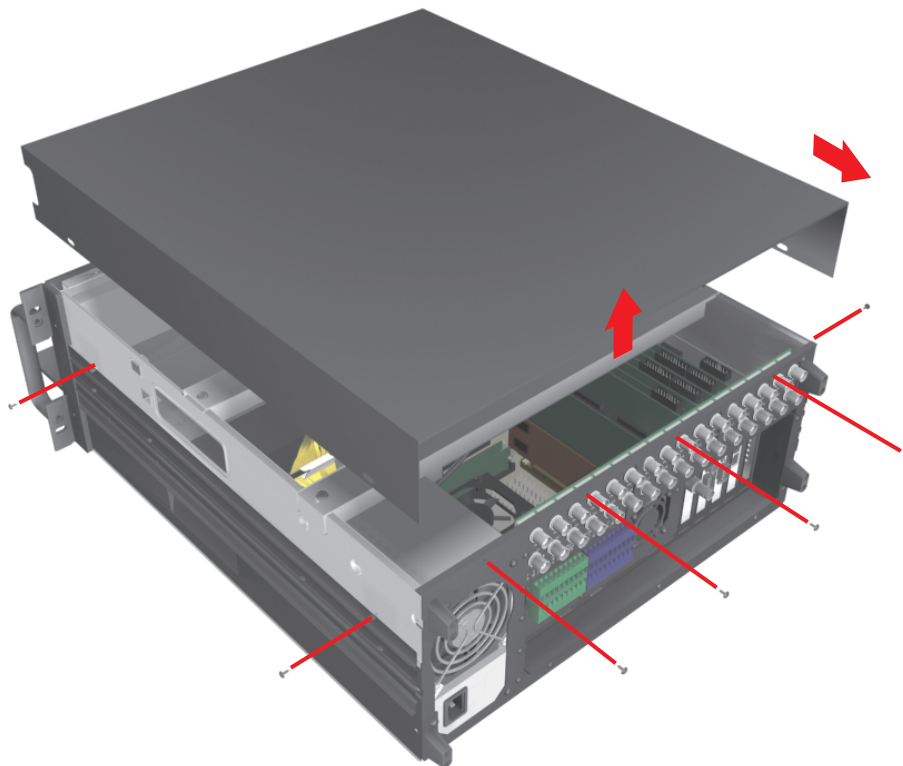


Figure 5. Removing Chassis Cover

COMPONENT LAYOUT

Figure 6 shows the location of your DX8000 Series DVR's major components. Certain cables and components have been omitted from the illustrations in this manual for the purpose of clarity.

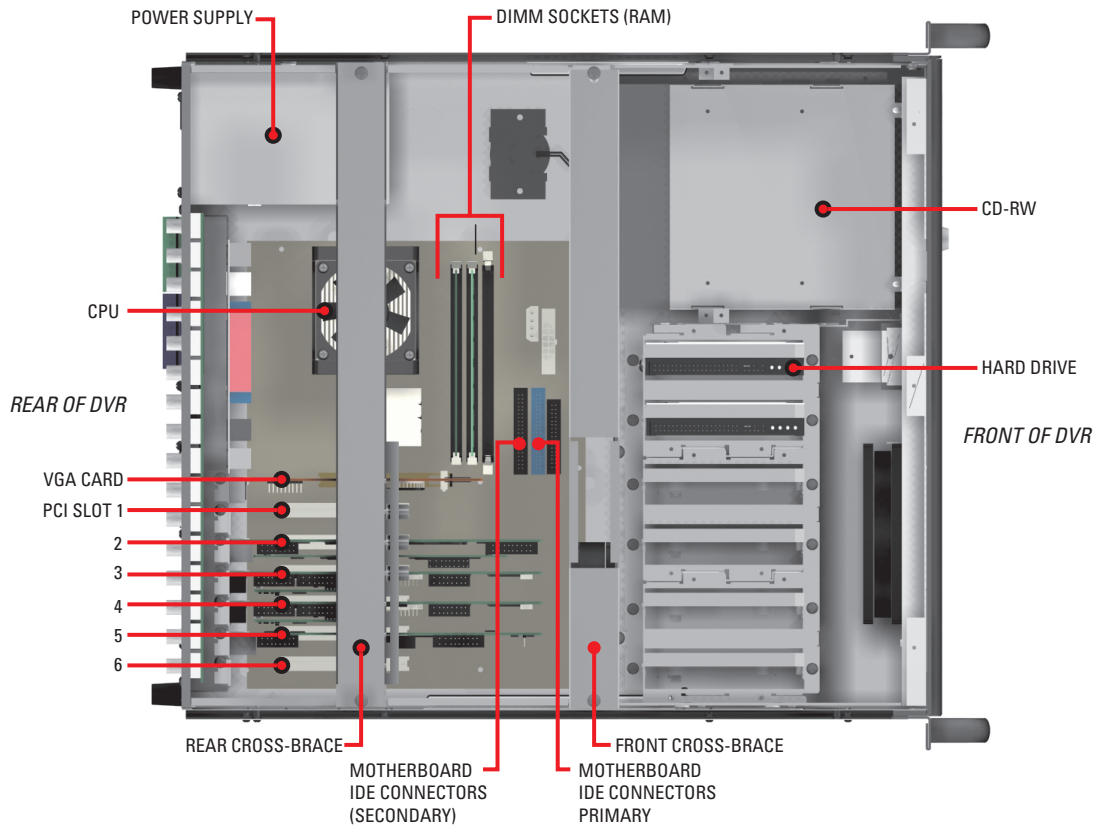


Figure 6. DX8000 Interior

Install the DX8UP-512MBRAM Memory Module

This section describes how to install the DX8UP-512MBRAM DIMM module. Ensure that the DIMM module with the highest memory is installed in DIMM1 and the DIMM module with the next highest memory capacity is installed in DIMM2. There are two scenarios when you upgrade your DX8000 with the DX8UP-512MBRAM DIMM module.

1. **Upgrading the DX8000 memory from 256 MB to 768 MB:** In this case, the 256 MB RAM DIMM module is installed in DIMM1. For information about installing the DX8UP-512MBRAM DIMM module, refer to installation procedure below.
2. **Upgrading the DX8000 memory to 768 MB and maintaining the pre-alarm recording option:** Before the DX8UP-512MBRAM upgrade, the DX8000 has two 256 MB RAM DIMM modules installed:
 - One 256 MB module is in DIMM1. This module provides 256 MB of memory for the DX8000
 - The second 256 MB module is in DIMM2. This module supports the pre-alarm recording option.

In summary, the procedure for installing the DX8UP-512MBRAM upgrade is as follows:

- a. Remove the 256 MB DIMM module installed in DIMM1 and install it in DIMM3.
- b. Install the DX8UP-512MBRAM DIMM in DIMM1.

The memory installation procedure below provides specific instructions for scenario 1 and general instructions for scenario 2. However for scenario 2, you can refer to the installation procedure below for instructions about how to remove and install a DIMM module.

To install the DX8UP-512MBRAM DIMM module:

1. Carefully remove the DX8UP-512MBRAM DIMM module from its static-safe packaging. Handle the DIMM by its edges and avoid contact with the module's chips or conductive leads.
2. Remove the current 256 MB DIMM module from slot DIMM 1. Refer to Figure 7.

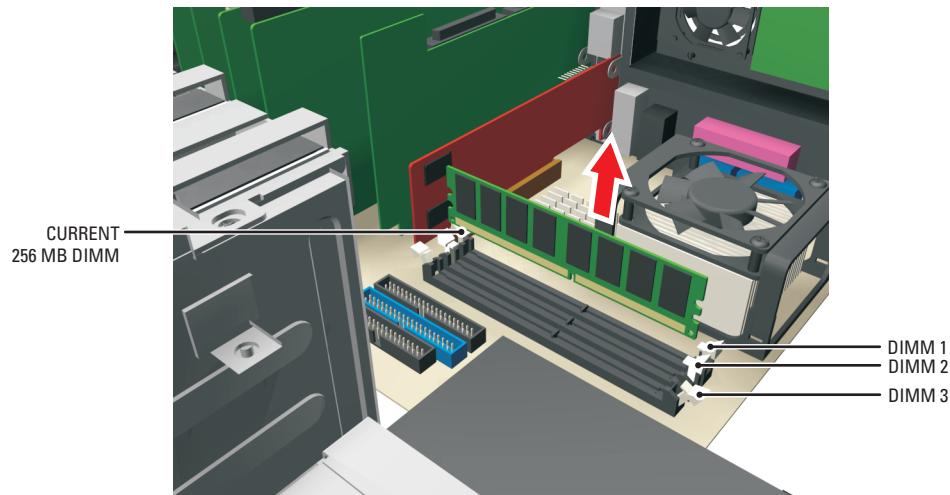


Figure 7. Current 256 MB DIMM Module In DIMM 1

3. To re-install the current 256 MB DIMM module, do the following:
 - a. Align the current 256 MB DIMM module (removed from slot DIMM 1) with the socket for slot DIMM 2 so that the notch in the module lines up properly with the break in the DIMM socket. Refer to Figure 8.
 - b. Make sure that the white retaining clips are not in the locked position by pressing outward and down on each clip.

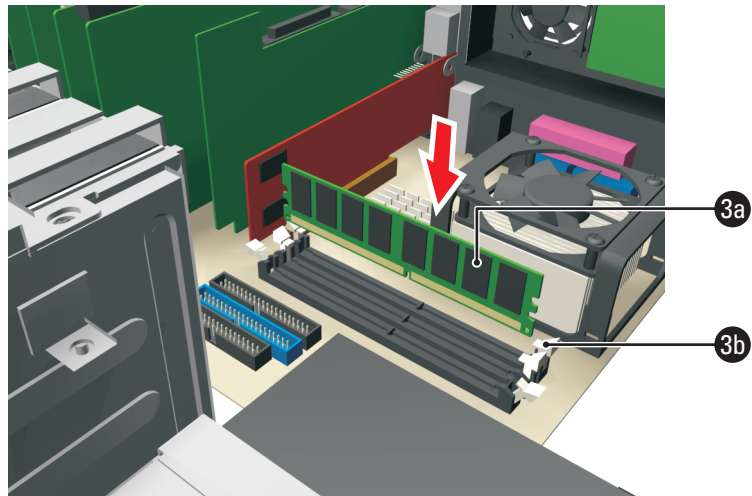


Figure 8. Current 256 MB DIMM Module Moved to Slot DIMM 2

- c. Carefully, but firmly, push the DIMM module into the empty socket until it is properly seated. The module is properly seated when the retaining clips snap back into place. Refer to Figure 9.

NOTE: When inserting the DIMM module into the socket, use enough pressure to ensure that the retaining clips snap back into place. Be careful, however, not to use excessive force that might damage the DIMM module or surrounding components.

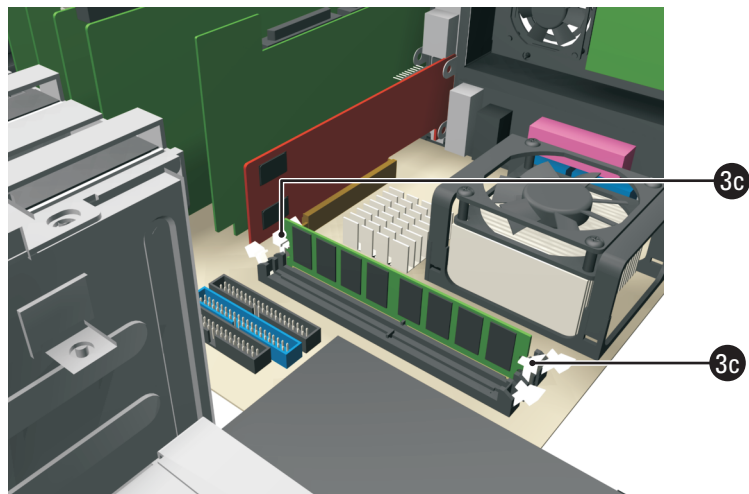


Figure 9. Seating and Securing the DIMM Module

4. To install the DX8UP-512MBRAM DIMM module, do the following:
 - a. Align the DX8UP-512MBRAM DIMM module with the socket for slot DIMM 1 so that the notch in the module lines up properly with the break in the DIMM socket. Refer to Figure 10.
 - b. Make sure that the white retaining clips are not in the locked position by pressing outward and down on each clip.

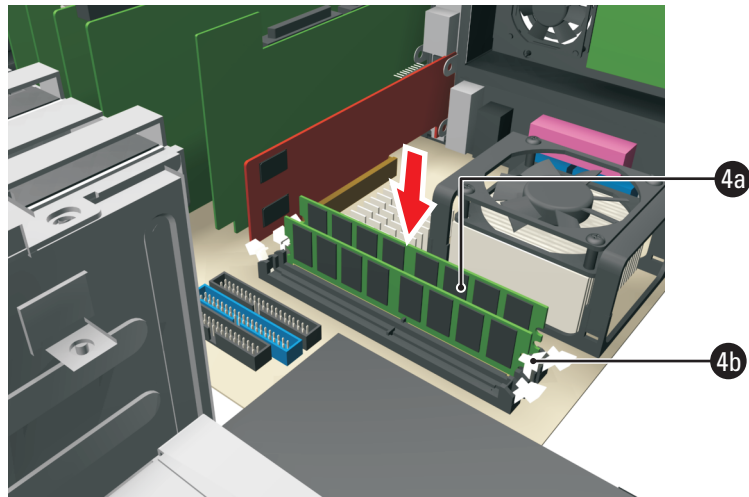


Figure 10. DX8UP-512MBRAM DIMM Installed In Slot DIMM 1

- c. Carefully, but firmly, push the DIMM module into the empty socket until it is properly seated. The module is properly seated when the retaining clips snap back into place. Refer to Figure 11.

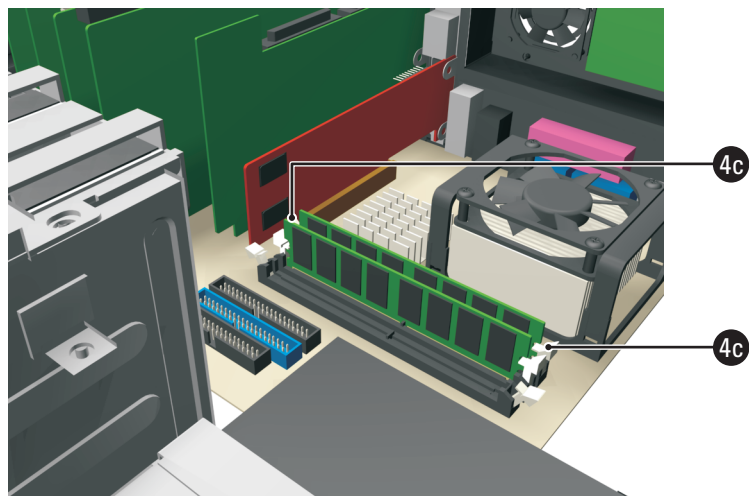


Figure 11. Seating and Securing the DIMM Module

Reassemble the Unit

1. Replace the chassis cover using the same screws you removed from the side and rear of the unit. Refer to Figure 12.

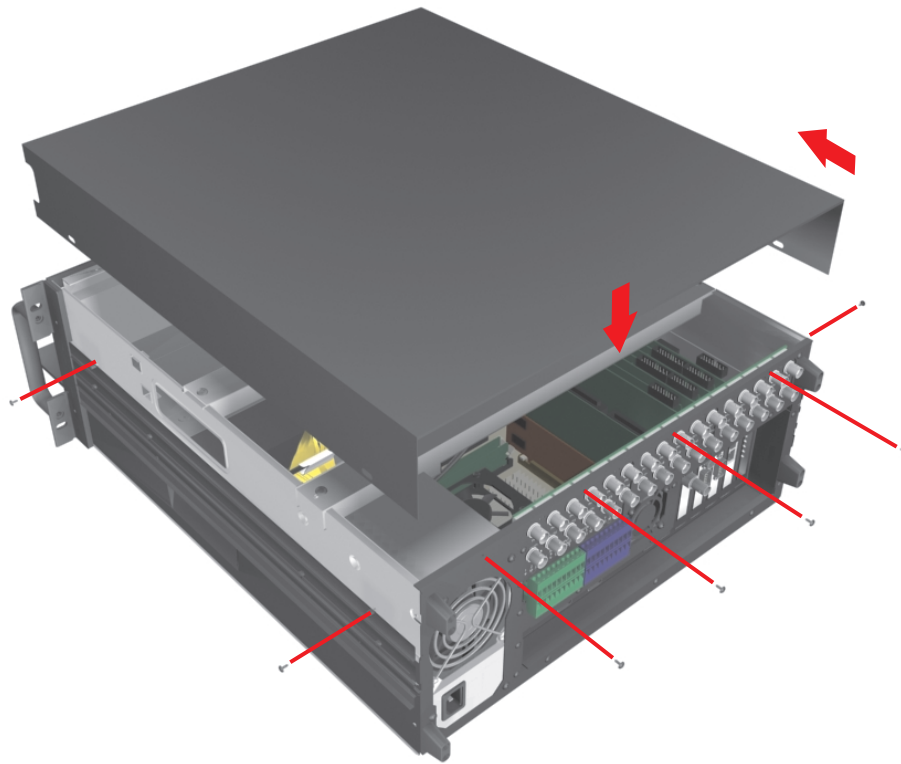


Figure 12. Replacing Chassis Cover

2. Attach the silver part label that came in your upgrade kit to the inside of your DVR's front door.
 - a. Remove the paper backing from the part label.
 - b. Carefully place the label, adhesive-side down, on a free section of the inside of the door.
 - c. Press down firmly to ensure that the label properly adheres to the inside of the door.

NOTE: In the event that your unit or its components require service, part labels must be present and appropriately affixed to the unit's door. Pelco product support personnel use these labels to identify the exact components installed in your system. A separate part label is required for each upgrade component installed on the DX8000.

3. Reinstall the unit in a rack enclosure if necessary, and reconnect all cables and peripheral equipment that you removed earlier.
4. Plug the power cord back into the power supply and then into the wall.

INCREASE PAGING FILE MEMORY SIZE

Pelco recommends that you increase the paging file memory size after the DX8UP-512MBRAM module is installed in the memory slot.

To increase the paging file memory size:

1. Turn on the power switch and allow the unit to start up and find the new memory. This may take several minutes.
2. After the DX8000 application starts, log in as an administrator level user and exit to the Windows® operating system. Refer to the Installation or Operation/Programming manuals that came with your unit for instructions.
3. In the Windows operating system environment, click Start > Settings > Control Panel. The Control Panel window opens.
4. Double-click the System Icon to open the System Properties. The System Properties dialog box opens.



Figure 13. System Icon

5. On the General tab of the System Properties dialog box, in the Computer section of the tab, do the following:
 - a. Verify the correct amount of memory is installed.
 - b. Click > Advanced > Performance Options > Change. The Virtual Memory dialog box opens.

The Microsoft recommended setting for the paging file size is 1-1/2 times the size of the physically installed memory. For example, if the size of the physically installed memory is 768 MB, the paging file size should be 1150 MB.

6. Assuming the physically installed memory is 768 MB, do the following:
 - a. Set the Initial size to 1150.
 - b. Set the Maximum size to 1150
 - c. Press the Set button.
7. Click OK to exit the windows and restart the machine if asked to.

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FR/FT/FS Series fiber optic products and TW3000 Series unshielded twisted pair transmission products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Three years on PMCL200/300/400 Series LCD monitors.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Two years (except lamp and color wheel) on Digital Light Processing (DLP®) displays. The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department
Pelco
3500 Pelco Way
Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco
3500 Pelco Way
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors
473 Eccles Avenue
South San Francisco, CA 94080 USA
Phone: 650-737-1700
Fax: 650-737-0933



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

REVISION HISTORY

Manual #	Date	Comments
C2612M	5/06	Original version.
C2612M-A	6/06	Describes how to install the DX8000-512RAM and DX8000-256RAM memory module.

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